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State of South Carolina

TWENTY-SECOND ANNUAL REPORT

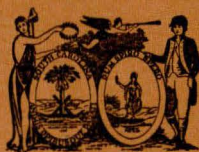
of the

State Board of
Engineering Examiners

to the

GOVERNOR

FOR YEAR ENDING JUNE 30, 1944



THE PUBLIC SERVICE
COMMISSION

NOV 29 1944

ELECTRICAL UTILITIES DIVISION

Roster of Registered Professional
Engineers and Land Surveyors

1944

State of South Carolina

TWENTY-SECOND ANNUAL REPORT

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State Board of
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THE PUBLIC SERVICE
COMMISSION

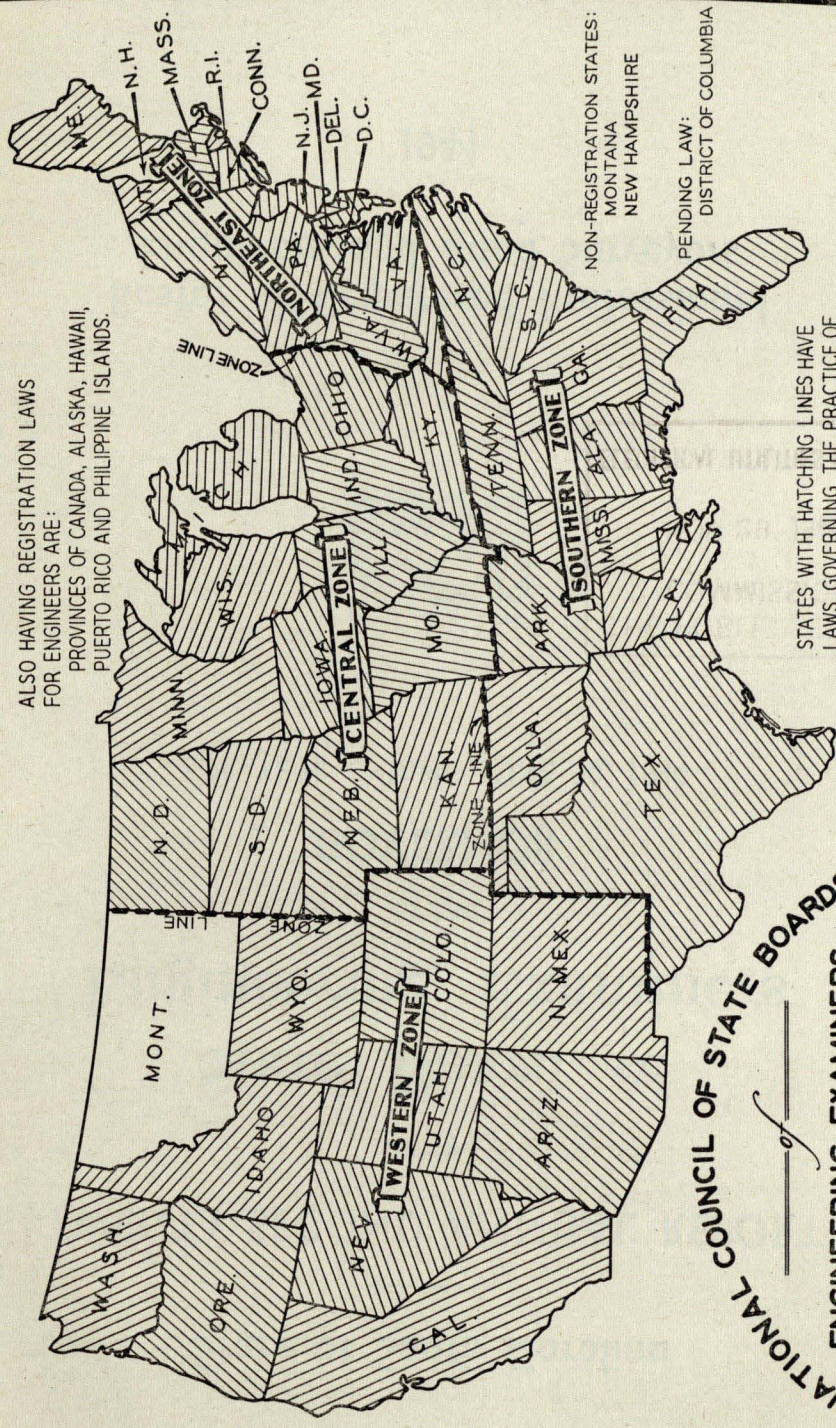
NOV 29 1944

ELECTRICAL UTILITIES DIVISION

Roster of Registered Professional
Engineers and Land Surveyors

1944

ALSO HAVING REGISTRATION LAWS
FOR ENGINEERS ARE:
PROVINCES OF CANADA, ALASKA, HAWAII,
PUERTO RICO AND PHILIPPINE ISLANDS.



**NATIONAL COUNCIL OF STATE BOARDS
ENGINEERING EXAMINERS**

STATES WITH HATCHING LINES HAVE
LAWS GOVERNING THE PRACTICE OF
PROFESSIONAL ENGINEERING.

NON-REGISTRATION STATES:
MONTANA
NEW HAMPSHIRE

PENDING LAW:
DISTRICT OF COLUMBIA

OCTOBER 1943

Letter of Transmittal

TO THE GOVERNOR

COLUMBIA, S. C., SEPTEMBER, 1, 1944

*To His Excellency, HON. OLIN D. JOHNSTON,
Governor of South Carolina,
Columbia, S. C.*

SIR:

In compliance with Sections 7068 and 7079, Chapter 148, Article 2, Civil Code of South Carolina, 1942, we have the honor to transmit this Twenty-second Annual Report of the activities of the Board, together with a statement of receipts and expenditures and a list of those registered in accordance with the law.

The Board desires to express its appreciation of the cooperation and assistance received from your office and other State departments.

Respectfully submitted,

STATE BOARD OF ENGINEERING EXAMINERS,
WALTER C. HERBERT, *Chairman.*

Attest:

T. KEITH LEGARÉ, *Secretary.*

Personnel of South Carolina State Board of Engineering Examiners

Walter C. Herbert, *Chairman*, Columbia

Director, Electric Utilities Division, Public Service Commission

Member, South Carolina Society of Engineers

Member, South Carolina Bar

Harwood Beebe, *Vice-Chairman*, Spartanburg

The Harwood Beebe Company, Municipal and Civil Engineers

Member, American Society of Civil Engineers

Member, American Public Works Association

Member, American Water Works Association

Member, American Society for Testing Materials

Member, South Carolina Society of Engineers

Member, North Carolina Society of Engineers

T. Keith Legare', *Secretary*, Columbia

District Manager, War Production Board

Exec. Sec'y, National Council State Boards of Eng. Examrs.

Past President, National Council State Boards of Eng. Examrs.

Chairman, Com. on Registration of Engrs., Am. Soc. C. E.

Past Director, American Society of Civil Engineers

Member, South Carolina Society of Engineers

Past Member, Engrs'. Council for Professional Development

E. H. Shuler, Spartanburg

Professor of Applied Mathematics, Wofford College

Member, South Carolina Society of Engineers

L. S. LeTellier, Charleston

Head, Department of Engineering,

The Citadel, The Military College of South Carolina

Member, American Society of Civil Engineers

Member, American Concrete Institute

Director, Civil Engineering Division, Society for the Promotion of Engineering Education.

Member, South Carolina Society of Engineers

Office of Board

505 Carolina Life Building, Columbia, S. C.

P. O. Drawer 1404

Mrs. Roy D. Whitaker, Assistant to the Secretary

REPORT

of the

State Board of Engineering Examiners

FOR THE YEAR ENDING JUNE 30, 1944

MEN IN MILITARY SERVICE

PAYMENT OF RENEWAL FEE NOT REQUIRED

There has been no specific deferment of payment of annual renewal fee for men in military service, however, the Board has adopted the policy of not requiring registrants who are now in military service to pay the required renewal fee until they resume the practice of engineering in this State. Provision is made in the Rules and Regulations of the Board, published elsewhere in this Report, for the "Reinstatement of Revoked or Lapsed Certificates" and, when any registrant who has not kept up his annual renewal wishes to have his legal registration made effective again, he may do so by meeting these requirements.

Because of the provisions of the Registration Act the "Roster of Registered Engineers and Land Surveyors Authorized to Practice in the State of South Carolina," published in this Report, does not contain the names of registrants who have not paid the current renewal fee. There are, therefore, a number of legally Registered Engineers now in Military or Government Service whose names do not appear in the current list but who may be reinstated when they return to engineering work that requires registration.

ACTIVITIES OF THE BOARD

During the past fiscal year the Board held two meetings at which it considered a total of 25 applications for registration. There were 14 engineers and 5 land surveyors approved.

The Board has investigated a number of violations of the registration law. These were adjusted by either registration or discontinuance of practice or discontinuance of improper use of title. One court case is pending.

The accompanying financial statement shows all receipts and disbursements, and the accounts of the Board have been audited by the State Auditor.

It is important that engineers practicing in this state keep their registration up to date and advise the office of the Board as to any change of title and address.

This office will be glad to furnish any of our registrants with information regarding registration in other states or any other information they may wish in connection with registration procedure.

MEETINGS, FEES, RENEWALS

Regular meetings of the Board are held on the third Tuesday of June and the first Tuesday of December of each year. All applications for registration must be made on forms furnished by the Board, accompanied by the required fee of \$15.00 and filed with the Secretary of the Board at least thirty days before meetings. The examination fee will not be returned after the candidate has taken the examination irrespective of whether he passes or fails; nor will fee be returned if candidate fails to appear after being duly notified to report for examination but the Board may at its discretion admit the candidate to subsequent examination without additional fee.

All certificates of registration expire on June 30th of each year and those who continue to practice after that date without renewal are violating the law. The annual renewal fee of \$5.00 for engineers and \$3.00 for land surveyors is payable on or before the 3rd Tuesday of June. Only one fee of \$5.00 is required when classification includes both engineer and surveyor.

HISTORY OF REGISTRATION ACT

The Act providing for the creation of the State Board of Engineering Examiners and the registration of professional engineers and land surveyors was passed by the State Legislature of South Carolina at the 1922 session and was approved by Governor R. A. Cooper on March 22, 1922. The Act, as now amended, was approved by Governor John G. Richards on March 10, 1928.

The first members of the Board were appointed and commissioned by Governor Wilson G. Harvey on May 31, 1922, and were as follows: G. E. Shand of Columbia, George Wrigley of Greenville, L. S. LeTellier of Charleston, W. S. Tomlinson of Columbia, and T. Keith Legaré of Columbia.

The Board held its first meeting in Columbia on June 17, 1922, and was organized by the election of officers and the appointment of committees. The present officers and members of the Board are given on page four.

Financial Statement

July 1, 1943 to June 30, 1944

Cash Balance, July 1, 1943.....\$4,639.03

Receipts:

Registration and Renewal Fees..... 1,896.55
Cancelled Warrant No. 1041 3.50
\$6,538.53

Disbursements:

Vouchers on Comptroller General.....\$2,001.78
Cash Balance, June 30, 1944..... 4,536.75
\$6,538.53

ANALYSIS OF DISBURSEMENTS

July 1, 1943 to June 30, 1944

Salaries (Secretary).....\$ 687.50
Clerical Help..... 352.50
Per Diem Board Members..... 100.00
Travel 164.30
Office Rent..... 240.00
Office Supplies..... 40.53
Printing and Advertising..... 315.22
Insurance (Secretary's Bond)..... 15.00
Association Dues..... 50.00
Telephone and Telegraph..... 26.73
Refund 10.00
\$2,001.78

STATE OF SOUTH CAROLINA,
County of Richland.

I, T. K. Legaré, Secretary of the State Board of Engineering Examiners, do hereby certify that the financial report herewith rendered is a correct statement of the finances of the State Board of Engineering Examiners, for the period specified.

T. KEITH LEGARÉ.

Subscribed and sworn to before me this first day of September, 1944.

CLAIRE C. WHITAKER,
Notary Public for S. C.

STATE OF SOUTH CAROLINA,
County of Charleston.

I, Walter C. Herbert, Chairman of the State Board of Engineering Examiners, do hereby certify that the financial statement herein rendered of the State Board of Engineering Examiners is true to my own knowledge, except those matters and facts stated on information and belief and as to those, I believe it to be true.

WALTER C. HERBERT,

Subscribed and sworn to before me this first day of September, 1944.

C. R. BOYLE,
Notary Public for S. C.

August 31, 1944.

GOVERNOR OLIN D. JOHNSTON, *Chairman*,
State Budget Commission,
Columbia, South Carolina.

Dear Sir:

In compliance with the law, we have audited the accounts of the South Carolina Board of Engineering Examiners covering the period beginning July 1, 1943 and ending June 30, 1944.

The records of the Board are in agreement with the State Treasurer and it appears that all collections of record are properly accounted for and that disbursements have been made for proper purposes.

Respectfully submitted,

J. M. SMITH,
State Auditor.

Engineers and Land Surveyors

Chapter 148

Civil Code of South Carolina 1942

Regulation of Certain Professions, Trades and Businesses

Article 2

SECTION 7063. *Registration of Engineers and Land Surveyors.*—In order to safeguard life, health and property, any person practicing or offering to practice professional engineering or land surveying hereafter in this State shall be required to submit evidence that he or she is qualified so to practice, and shall be registered as hereafter provided; and that it shall be unlawful for any person to practice or to offer to practice professional engineering or land surveying in this State unless such person has been duly registered as a professional engineer or land surveyor, or has been exempt from registration under the provisions of this article: Provided, That the provisions of this article shall not apply to land surveyors unless they desire to hold themselves out as registered land surveyors.

SECTION 7064. *Expenses Not to Exceed Fees Collected.*—Under no circumstances shall the total amount of warrants issued by the State Auditor in payment of the expenses and compensations provided in this article exceed the amount of the examination and registration fees collected as herein provided.

SECTION 7065. *Terms Defined.*—As used in this article:

(a) The "Board" means the State Board of Engineering Examiners provided for by this article.

(b) "Surveyor," any person who shall be engaged in locating, establishing or relocating any land boundary lines between two or more landowners, or who shall be engaged in locating any United States Government, State, county, township or municipal land survey lines, or the lines of any public streets or roads, is hereby declared to be a surveyor and as practicing land surveying within the provisions of this article.

(c) Any person who shall be engaged in the designing or supervising of the construction, enlargement or alteration of any engineering structure, or utilities, as hereinafter defined, or any part thereof for others and to be constructed by persons other than himself, shall be regarded as practicing professional engineering within the meaning of this article. The practice of professional engineering within the meaning of this article embraces the design and the supervision of the construction of public and private utilities, such as railroads, bridges, highways, roads, canals, harbors, rivers, improvements, light-houses, wet docks, dry docks, ships, barges, dredges, cranes, floating docks and other floating property, the design and the supervision of the construction of steam engines, turbines, internal combustion engines and other mechanical structures, electrical machinery and apparatus, and of works for the developments, transmission or application of power, the design and the supervision of mining operations and of processes and apparatus for carrying out such operations, and the design and supervision of the construction of municipal works, irrigation works, water supply works, sewerage works, drainage works, industrial works, sanitary works, hydraulic works and structural works and other public or private utilities or works which require for their design or supervision of the construction such experience and technical knowledge as are required in Section 7070. The execution as a contractor of work designed by a professional engineer, or the supervision of the construction of such work

as a foreman or superintendent for such a contractor shall not be deemed to be the practice of professional engineering within the meaning of this article.

(d) "Engineer" means any person who practices professional engineering.

SECTION 7066.—*State Board of Engineering Examiners—Appointments—Term—Qualifications—Compensation.*—There is hereby created a State Board of Engineering Examiners consisting of five members, to be appointed by the Governor within sixty (60) days after the passage of this article. Three members of the Board shall be civil engineers, one a mining or electrical engineer, and the other one a mechanical engineer or naval architect. Of the members of the Board first appointed hereunder, two shall hold office for a term of two years, two shall hold office for a term of three years, and one shall hold office for a term of four years, each term of office ending the first day of July. Upon the expiration of each of such terms the term of office of each member thereafter appointed shall be four years. Each member shall hold over the expiration of his term until his successor shall be duly appointed and qualified. The Governor may remove any member of the board for misconduct, incapacity or neglect of duty. Vacancies in the board caused by death, resignation or removal from office shall be filled by appointment by the Governor for the unexpired term. Each member of the board shall be a professional engineer of at least ten years' active experience and of recognized good standing in his profession and shall be at least thirty-five years of age and shall have been a resident of this State for at least three years immediately preceding his appointment. Each member of said board, except the members first appointed hereunder, shall also be registered as a professional engineer under this article. The members of the Board shall receive as compensation the sum of ten (\$10.00) dollars per day for the time actually spent in traveling to and from and in attending sessions of the board and its committees and each member shall receive all necessary expenses incident to the performance of his duties under this article.

SECTION 7067. *Oath—Registration—Seal—By-Laws.*—Every member of the board shall receive a certificate of his appointment from the Governor, and before beginning his term of office shall file with the Secretary of State his written oath for the faithful discharge of his official duty. Each member of the board first appointed hereunder shall receive a certificate of registration under this article from said board. The board shall adopt and have an official seal. The board may make all by-laws and rules not inconsistent with law needed in performing its duties; but no by-law or rule by which more than a majority vote is required for any specified action by the board shall be amended, suspended or repealed by a smaller vote than that required for action thereunder.

SECTION 7068. *Organization—Secretary—Expenditures—Reports.*—The board shall annually elect from its members a chairman, a vice-chairman and a secretary. The secretary shall give a surety bond in the sum of three thousand (\$3,000.00) dollars, conditioned for the faithful performance of his duties and for the accounting and paying over of all monies received by him. The premium of said bond shall be paid from the fund of the board hereinafter provided. The secretary shall keep on file a record of all certificates of registration granted. He shall receive and account for all fees derived from the operation of this article, and shall pay to the State Treasurer, who shall keep such monies in a separate fund, to be known as the fund of the board of engineering examiners, continued from year to year, to be drawn against only for the expenses of the board. Warrants for the payment of the expenses incurred shall be issued by the Comptroller General of the State and paid by the State Treasurer upon presentation of vouchers regularly drawn by the chairman and the secretary of the board: Provided, however, That at no time shall the total amount of warrants exceed the total amount of fees paid under this article. On or before the 30th day of June in each year the board shall sub-

mit to the Governor a written report of its transactions for the preceding year, and shall file with the Secretary of State a copy of said report, together with a complete statement of the receipts and expenditures of the board, attested by the affidavits of the chairman and the secretary, and a complete list of those registered under this article, with their addresses and the dates of their certificates of registration. The board shall hold at least two regular meetings in each year, special meeting may be called in such manner as the by-laws of the board may provide. Notice of all meetings shall be given in such manner as the by-laws of the board may provide. At all meetings a majority of the board shall constitute a quorum.

SECTION 7069. *Employees.*—The board shall have power to employ, during its pleasure, such clerks and other employees and to rent such offices as may be necessary for the proper performance by it of its duties as in this article prescribed.

SECTION 7070. *Admission to Examination.*—The board shall admit to examination any candidate who pays a fee of fifteen (\$15.00) dollars and submits evidence verified by oath and satisfactory to the board that he:

- (a) Is more than twenty-one (21) years of age.
- (b) Is of good character, and
- (c) Has been engaged in the practice of professional engineering or land surveying for at least four (4) years, and during that period has had charge of said work as principal or assistant for at least one year.
- (d) Or in lieu of requirement (c) specified above, is a graduate from an engineering school.
- (e) Provided, however, That no person shall be eligible for registration who is not a citizen of the United States of America unless he has filed his first papers for naturalization; and then he will be required to have completed his naturalization within three years from the date that he is granted certificate of registration, or he will be deprived from further practicing his profession or calling, as set forth in this article.

SECTION 7071. *Examinations.*—Examinations for registration shall be held at regular or special meetings of the board at such times and at such places within the State in each year as the board shall determine. The scope of the examinations and the methods of procedure shall be prescribed by the board with special reference to the applicant's ability to design and supervise engineering works, which shall insure the safety of life and property. Examinations shall be held to determine the qualifications of applicants for registration separately in surveying or in any one of the branches of professional engineering, embracing civil, mechanical and electrical, mining or naval architecture. The examination may be either oral or partly oral and partly written. As soon as practicable after the close of each examination the members of the board who shall have conducted such examination shall make and sign and file with the secretary a certificate stating the action of the board upon the application of each candidate, whereupon the secretary of the board shall notify each candidate of the result of his examination. A candidate failing on examination may, after an interval of not less than one year, be examined again.

SECTION 7072. *Fees—Certificates.*—In the case of examination as professional engineer, upon the receipt of an additional fee of ten (\$10.00) dollars, the board shall issue to any applicant who has been reported to have passed the examination conducted by the board, a certificate of registration as a professional engineer in the branch or branches in which he is qualified, signed by the chairman and secretary of the board under the seal of the board, whereupon such applicant shall be authorized to practice professional engineering as

defined by this article. In case of examination as land surveyor the board shall issue to any applicant who has been reported to have passed the examination conducted by the board, a certificate of registration as land surveyor, signed by the chairman and secretary of the board under the seal of the board, whereupon such applicant shall be authorized to practice land surveying as defined by this article. A certificate of registration as a professional engineer shall not carry with it the right to practice land surveying unless it is specially permitted by said certificate, which permission shall be granted by the board without additional fee in the case of an applicant duly qualified as prescribed by the rules of the board.

SECTION 7073. *Certification within One Year without Examination.*—At any time within one year after this article becomes effective, upon due application thereof and the payment of a fee of twenty-five (\$25.00) dollars, the board shall issue a certificate of registration, as provided by Section 7072, to any professional engineer or land surveyor who shall submit evidence under oath and satisfactory to the board that he is of good character, has been a resident of the State of South Carolina for at least one year immediately preceding the date of his application, and has practiced professional engineering or land surveying preceding the date of his application, and during that period has had charge of engineering work or land surveying as principal or assistant. After this article shall have been in effect one year, the board shall issue certificates of registration only as provided in Sections 7067, 7072 and 7074.

SECTION 7074. *Reciprocal Registration.*—The board shall, from time to time, examine the requirements for the registration of professional engineers in other States, territories and countries and shall record those which, in the judgment of the board, standards not lower than those provided by this article are maintained. The secretary of the board, upon the presentation to him by any person of satisfactory evidence that such person holds a certificate of registration issued to such person by proper authority in any such State, territory or country as recorded and upon receipt by him of a fee of twenty-five (\$25.00) dollars, shall issue to such person a certificate of registration under this article, signed by the chairman and secretary under the seal of the board, whereupon the person to whom such certificate is issued shall be entitled to all the rights and privileges conferred by a certificate issued after examination by the board.

SECTION 7075. *Revocation of Certificate.*—It shall be the duty of the board to inquire into the identity of any person practicing or claiming to be a land surveyor or professional engineer. The board shall have the power by a four-fifths vote to revoke the certificate of any professional engineer or land surveyor registered hereunder, found guilty of any fraud, deceit or gross incompetency in his practice, or guilty of any fraud or deceit in obtaining his certificate, or in case he is found by the same vote to be incompetent. Proceedings for the revocation of license of registration shall be begun by filing with the secretary of the board written charges against the accused. The board shall designate a time and place for a hearing and shall notify the accused of this action and furnish him a copy of all charges at least ten days prior to the date of the hearing. The accused shall have the right to appear personally or by counsel, to cross examine witnesses or to produce witnesses in his defense. The board may summons witnesses and administer oaths. It shall be the duty of the board to prosecute any person violating the provisions of this article.

SECTION 7076. *Renewal of Registration.*—Every certified professional engineer so registered under this article who desires to continue the practice of his profession shall annually pay to the secretary of the board a fee of five (\$5.00) dollars on or before a date to be fixed by the board, for which fee a renewal certificate of registration for the current year shall be issued. Every

land surveyor so registered under this article who desires to continue the practice of his profession shall annually pay to the secretary of the board a fee of three (\$3.00) dollars on or before a date to be fixed by the board, for which fee a renewal certificate for registration for the current year shall be issued.

SECTION 7077. *Proof of Registry.*—An unrevoked certificate and endorsement of registry made as provided in this article shall be presumptive evidence in all courts and places that the person named therein is legally registered.

SECTION 7078. *Article Applicable to Corporations.*—The Provisions of this article shall apply to every corporation, domestic or foreign, engaged in the business of professional engineering within the State of South Carolina, except the certificate of registration issued hereunder shall be held by one or more of its officers or employees instead of by such corporation.

SECTION 7079. *Annual Publication of List of Registrants.*—The board each year shall certify and publish a complete list of registered professional engineers and land surveyors with their business addresses.

SECTION 7080. *Land Surveyors of Five-Year Standing.*—Nothing contained in this article shall apply to land surveyors who shall have been engaged in the active practice of their profession as land surveyors as long as five years prior to the date hereof, but such surveyors may obtain registration upon voluntary compliance with the terms of this article.

SECTION 7081. *Violation a Misdemeanor—Penalty.*—Any person who, not being then legally authorized to practice professional engineering or land surveying within this State according to the provisions of this article and so registered according to law, shall practice, or attempt or advertise to practice, or hold himself out as authorized to practice professional engineering or land surveying or shall use in connection with his name, or otherwise assume, use or advertise any title or designation tending to convey the impression that he is a professional engineer or registered land surveyor shall be deemed guilty of a misdemeanor, and shall for each offense of which he is convicted be punished by a fine not to exceed five hundred (\$500.00) dollars, or by imprisonment not to exceed three months, or both such fine and imprisonment.

SECTION 7082. *Exemptions from Article.*—This article shall not apply to military engineering or to any professional engineer working for the United States Government nor to employees of railroads or interstate public service corporations. Nor to any professional engineer employed as an advisor or as an assistant to a professional engineer registered under this article; nor to any professional engineer coming from without this State and employed therein until a reasonable time, as prescribed by the rules of the board, shall have elapsed to permit the registration of such person under this article: Provided, That before practicing within this State he shall have applied for the issuance to him of a certificate of registration and shall have paid the fee prescribed in this article.

SECTION 7083. *Not Applicable to Registered Architects.*—This article shall not apply to any architect registered by the State of South Carolina under the provisions of the article creating the State Board of Architecture.

SECTION 7084. *Registrants Exempt from Certain Provisions of Act Requiring Licensing of Architects.*—Persons licensed to practice professional engineering in this State under this article shall be exempt from the provisions of any Act providing for the licensing of architects or regulating the practice of architecture in so far as the definition of "buildings" in any said Architects' Act may include, or be included in the structures enumerated in Section 7065.

Rules and Regulations

ADOPTED SEPTEMBER 14, 1922

Revised July 13, 1937

Under the authority of an Act of the General Assembly approved by the Governor, March 22, 1922, and entitled AN ACT PROVIDING FOR THE CREATION AND ESTABLISHMENT OF A STATE BOARD OF ENGINEERING EXAMINERS, etc., the following Rules and Regulations for the administration of said Act are hereby adopted.

Meetings: The Board will meet on the third Tuesday of June and the first Tuesday of December of each year. Special meetings may be called by the Chairman at his discretion or at the request of three members of the Board, provided that at least five days notice in writing be given to every member of the Board. Meetings will be held at such place as a majority of the Board may direct.

A majority of the Board shall constitute a quorum.

Election and Duties of Officers: The officers of the Board shall be elected at the regular June meeting of the Board, and shall hold office until their successors are elected and qualified.

The Chairman, and in his absence the Vice-Chairman, shall perform the usual duties of this office.

The Secretary shall keep a careful record of all proceedings of the Board, act as custodian of all records, the seal, and other property and papers belonging to the Board. He shall prepare annually and submit to the Board at the December meeting a written report covering the transactions of the Board for the year immediately preceding, together with a list of all land surveyors and professional engineers registered under the authority of the Act of March 22, 1922, with their addresses and date of registration; and a complete statement of all receipts and expenditures for the year. This report upon approval of the Board will be signed by the Chairman and Secretary and forwarded to the Governor and a copy filed with the Secretary of State, all of which as required by Section 7068 of said Act.

The Secretary will be furnished such clerical assistance and paid such salary as the Board may direct.

The Secretary will upon taking office give a surety bond in the sum of three thousand (\$3,000.00) dollars, as provided in Section 7068 of the Act, said bond to be approved by the Board.

Seal of the Board: The seal of the Board shall be circular in form and 1-7/8 inches in diameter. Concentric with the outside of the seal there shall be a circle 1-1/4 inches in diameter, within

which there shall be a replica of the device used on the Seal of the State of South Carolina, and in the annular space between the circle and the outside of the Seal there shall appear the words, "State Board of Engineering Examiners." All official papers, registration certificates, and other formal documents of the Board shall bear the imprint of this Seal.

Seal of Registered Engineers and Land Surveyors: The seal of engineers and land surveyors registered by the Board shall be 1-9/16 inches in diameter and similar to that prescribed for the Board. In the center there shall appear the words, "Registered Engineer," in the case of engineers; the words, "Registered Land Surveyor," in the case of land surveyors; and the words, "Registered Engineer and Land Surveyor," in the case of engineers and surveyors. In the space between the circle and the outside of the seal shall appear the words, "South Carolina" and the name of the registrant.

Annual Fees: The annual fee of five dollars for engineers and three dollars for surveyors required to maintain a certificate of registration shall be payable on or before the third Tuesday of June each year. Failure to pay this fee at the time due will automatically revoke a certificate of registration.

Application for Registration: All applications for registration must be made on the blanks provided by the Board. No application will be considered unless properly filled out and sworn to before an officer authorized to administer oaths.

Applications for registration must be filed with the Secretary at least thirty days in advance of a meeting of the Board in order to be considered at said meeting, and must in all cases be accompanied by the required fee.

Admission to Examination: In the case of applications received at least thirty days prior to a meeting of the Board, the Secretary will notify those applicants who are, in his opinion, eligible for the examination, of the time and place to report for examination. In the case of applications received less than thirty days prior to a meeting of the Board, the applicants cannot be admitted to examination until the next meeting of the Board.

Examinations: Examinations may be given by the Board or by a Committee of the Board. In no case will examination be given at any time or place other than at the time or place regularly designated by the Board and duly announced in at least three papers of the State, and at which time and place all qualified applicants may be permitted to take said examination.

In all cases final decision as to whether or not a candidate has passed on an examination must be acted on by the full Board, or a quorum thereof, assembled at a regular or special meeting.

Examination questions will be prepared with reference to a special branch of engineering (civil, mechanical, electrical, mining, naval architecture, or land surveying) in which a candidate is applying for registration, however, the Board will assume in preparing all examination questions that candidates are proficient in the basic principles underlying all engineering practice, and it may at its discretion examine a candidate on such basic principles.

Return of Fees: The fee of fifteen (\$15.00) dollars required by law before a candidate can be admitted to examination will not be returned after the candidate has taken his examination, irrespective of whether he passes or fails; nor will the fee be returned if the candidate fails to appear, after being duly notified to report for examination, but the Board may at its discretion admit the candidates to a subsequent examination without additional fee.

Expiration of Certificates of Registration: All certificates of registration will expire on June 30 of each year. On payment of the annual renewal fee on or before the third Tuesday of June, a renewal certificate will be issued extending the registration for one year, unless sooner terminated by revocation for cause.

Reinstatement of Revoked or Lapsed Certificates: Any registered professional engineer or registered land surveyor who submits to the Board an affidavit certifying that he has in no way practiced professional engineering or land surveying, except as provided for in Section 7082 of Article II, during any fiscal year, July 1 to June 30, accompanied by a statement showing in detail all work performed during this period, may be exempted by the Board from payment of the renewal fee required by Section 7076, Article II, Chapter 148, Civil Code of South Carolina, 1942, for the specific period stated in his affidavit.

In case a certificate has lapsed for non-payment of the annual fee of five (\$5.00) dollars, the Board may in its discretion renew the certificate if not more than one year has elapsed and the applicant presents to the Board satisfactory evidence that during the period of lapse he has not practiced engineering nor held himself out to the public as being in practice. If more than one year has elapsed since the automatic revocation of the certificate, the Board may renew the certificate on payment of the full fee for the current year and the presentation to the Board of satisfactory evidence that during the period of lapse the applicant had not practiced engineering nor held himself out to the public as being in practice, provided, however, that the Board reserves the right to re-examine such applicants for renewal of certificate if it deems it advisable.

National Council of State Boards of Engineering Examiners

Founded November 8, 1920

Incorporated March 28, 1938

OFFICERS 1944-1945

H. T. PERSON, *President*
Laramie, Wyoming

JOHN C. REMINGTON, JR., *Vice President*
Camden, New Jersey

CARL L. SVENSEN, *Past President*
Austin, Texas

H. T. PLUMB, *Director*, Western Zone
Salt Lake City, Utah

L. L. PATTERSON, *Director*, Southern Zone
State College, Mississippi

C. S. CROUSE, *Director*, Central Zone
Lexington, Kentucky

J. D. GUILLEMETTE, *Director*, Northeast Zone
Pawtucket, Rhode Island

T. KEITH LEGARÉ, *Executive Secretary*
Columbia, S. C.

The National Council of State Boards of Engineering Examiners is an advisory and coordinating agency established primarily to assist State Boards of Registration for Professional Engineers in a more efficient and uniform administration of state registration laws; and its functions and activities include the certification of engineers, jointly with State Boards, for interstate registration, and the operation of a national clearing house and information bureau for matters pertaining to the legal registration of professional engineers, serving State Boards, state committees, engineering societies, individual engineers and the public.

The national headquarters of the National Council of State Boards of Engineering Examiners are located in Columbia and the office is operated jointly with the South Carolina Board. The next annual meeting of the National Council will be held in St. Louis, Missouri, October 29-30, 1945.

The membership of the National Council is composed of forty-eight State Boards, representing over seventy-five thousand (75,000) registered engineers and surveyors.

Member Boards are: Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Puerto Rico, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming.

The South Carolina State Board of Engineering Examiners will accept the Certificate of Qualification issued by the National Bureau of Engineering Registration as satisfactory evidence that the applicant is qualified for legal registration in this State. It is desirable that applicants from other states, who wish to register in South Carolina, first secure certification from the National Bureau of Engineering Registration as this will expedite approval of their application and minimize the effort and expense of securing legal registration in this and other states.

Engineers registered in South Carolina who expect to practice in other states are urged to secure endorsement of their registration from the National Bureau of Engineering Registration and the South Carolina Board, as this will be of great assistance to them in securing registration in other states.

National Bureau of Engineering Registration

REGISTRATION BY ENDORSEMENT

Engineers who secure the endorsement of their State Board of Registration for Professional Engineers and of the National Council of State Boards of Engineering Examiners will find their applications for registration in the various states are greatly expedited and, in most cases, promptly approved. The required procedure for securing such endorsements is to file an application with the National Bureau of Engineering Registration, which will secure the endorsement of the State Board of Registration and after checking the professional record of the applicant, will also affix its endorsement and the seal of the National Council.

PURPOSE AND ADMINISTRATION

The National Bureau of Engineering Registration is operated as a function of the National Council of State Boards of Engineering Examiners, under the direction of a standing committee of the Council, with an Advisory Board of representatives from national engineering societies. It was established primarily to minimize the effort and expense of engineers desiring to secure registration in more than one state. The Bureau also constitutes a clearing house for state registration authorities, employers, societies, and others acting as a reliable source of verified information regarding the professional records of engineers.

Certification by the Bureau is not a prerequisite for registration in any state, nor is it binding upon the State Boards of Registration, nor will the Bureau assume any responsibility to the applicant in his securing legal registration authorizing him to practice engineering. The By-laws of the National Council and the registration laws or regulations of most states specifically provide, however, for acceptance of certificates issued by the Bureau, and practically all Member Boards of the National Council have definitely indicated that they will accept certification by the Bureau, with endorsement by a State Board, as competent evidence of qualification for registration. All State Boards reserve the right to take whatever action they deem necessary to conform with the requirements of their laws and regulations in connection with any application for registration in their state.

Engineers desiring legal registration in any state should communicate direct with the State Board or Department in that state and secure its application form and regulations. Applications for registration by endorsement should be accompanied by photostatic copies of Certificate of Qualification issued by the Registration Bureau. Each photostatic copy of an original Certificate of Qualification must have the seal of the National Council of State Boards of Engineering Examiners embossed on copy after it is made, in order to be officially acceptable to State Boards of Registration.

BUREAU PROCEDURE AND REQUIREMENTS

Any registered engineer desiring to secure a Certificate of Qualification from the Registration Bureau must submit to the Bureau on its prescribed form his complete record, including education, engineering experience, legal registration, technical examinations, membership in professional or scientific societies, and references as to character and experience.

Before proceeding with the verification and certification of the professional record of an applicant, his application will be submitted by the Bureau to the State Board in the State of which he is a resident or, in some cases, in the state in which he is practicing; and said Board at its discretion may require the applicant to furnish any additional information or to pass such written or oral examination as may be deemed necessary to establish his competency. When in the opinion of said Board the applicant is entitled to be recommended to other State Boards for registration, his Certificate of Qualification will be so endorsed by the Board. The Bureau will make an independent investigation of every item in this record and will either verify each one or indicate on the record the items which have not been verified, with reasons.

After verification, the Bureau will evaluate the professional record of the applicant and will issue a Certificate of Qualification if he meets the requirements of one of the following sections:

a. *Graduation Plus Experience*—Graduation from an engineering curriculum accredited by the Engineers' Council for Professional Development; and a specific record of an additional four years or more of experience in professional engineering work of a character satisfactory to the Bureau, and indicating that the applicant is fully competent to practice professional engineering; *Provided*, That in a case where the evidence presented in the application does not appear to the Bureau conclusive nor warranting the issuing of a Certificate of Qualification, the applicant may be required to present further evidence for the consideration of the Bureau and may also be required to pass an oral or written examination, or both (given by the Registration Board in his home State); or

b. *Examination Plus Experience*—Successfully passing a written, or written and oral, examination (given by the Registration Board in his home State) designed to show knowledge and skill approximating that attained through graduation from an accredited engineering curriculum; and a specific record of eight years or more of experience in professional engineering work of a character satisfactory to the Bureau and indicating that the applicant is fully competent to practice professional engineering; or

c. *Long Established Practice*—A specific record of fifteen years or more of lawful practice in professional engineering work of a character satisfactory to the Bureau and indicating that the applicant is fully competent to practice professional engineering, and provided applicant is not less than thirty-five years of age.

Qualifying Experience—Determination of applicants' competency will be based less on length of experience (provided the minimum is met in each case) than on the breadth, quality, and importance of pertinent experience, degree of progression, evidence shown of ability to accept increasing responsibilities, and of the possession of personal qualifications required for successful engineering work.

The practice of professional engineering includes any professional service, such as consultation, investigation, evaluation, planning, design, responsible supervision of construction or operation, in connection with any public or private utilities, structures, buildings, machines, equipment, processes, works or projects, wherein the public welfare, or safeguarding of life, health or property is concerned or involved, when such professional service requires the application of engineering principles and data. Engineering teaching may be construed as engineering experience. The satisfactory completion of each year of an approved curriculum in engineering in a school or college approved by the Board (and Bureau) as of satisfactory standing, without graduation, shall be considered as equivalent to a year of experience in Sections "b" and "c".

Graduation from an engineering curriculum not accredited by E.C.P.D. shall be considered as equivalent to two years of experience in Sections "b" and "c". Graduation in a curriculum other than engineering from a college or university of recognized standing may be considered as equivalent to two years of experience in Sections "b" and "c"; *Provided, however*, That no applicant shall receive credit for more than four years of experience because of undergraduate educational qualifications.

It is interpreted that the practice of professional engineering does not include the work ordinarily performed by persons who operate or maintain machinery or equipment, or whose only experience has been in the execution, as a contractor, of work designed by a professional engineer or the supervision of the construction of such work as a foreman or superintendent.

An applicant whose status is classified under Section "b" of the requirements and who has not passed an engineering examination satisfactory to the Board and Bureau will be notified to this effect and, if desired by him, a State Board of Engineering Examiners or Registration designated by the Bureau will conduct the required examination. The applicant will be required to pay for any expense incurred.

FEES AND APPLICATIONS

The Bureau is a non-profit agency and the fees charged represent only the actual cost of clerical work, printing and postage.

The charges for services of the Registration Bureau are as follows:

1. Fee for investigation, verification, and certification, including one photostatic copy of Verified Professional Record, Certificate of Qualification and State Board Endorsement (one document)—\$20.00.

2. The original professional record in a Certificate of Qualification will be brought up to date at any time upon request and a photostatic copy of the revised Certificate of Qualification will be furnished—\$5.00.

3. Additional copies of Certificate of Qualification, the document referred to above—each \$2.00.

(Note: It should be noted that each photostatic copy of an original Certificate of Qualification must have the seal of the National Council of State Boards of Engineering Examiners embossed on copy after it is made, in order to be officially acceptable to State Boards of Registration.)

4. One set of one photostatic copy of Certificate of Qualification and one each of the answered questionnaires from the five references given in Section 1 of the Bureau application, to be mailed direct to a State Board. (Required by few State Boards.)—\$5.00.

5. One set of one photostatic copy of Certificate of Qualification and one copy each of all answered questionnaires in connection with the Bureau application, to be mailed direct to a State Board. (Required by few State Boards.)—\$10.00.

Fees must accompany applications, or orders for copies, and will not be refunded if application is not approved.

An investigation such as that conducted by the Bureau often requires considerable time. It is suggested, therefore, that an engineer should not wait until he actually needs a Certificate of Qualification. He should, in fact, file his application with the Bureau as early as practicable so that certification by the Bureau may be available for presentation to State Boards of Engineering Examiners or Registration with which he desires registration or for other appropriate purposes.

Applications must be submitted on forms prescribed by the Bureau and must be filed with the National Bureau of Engineering Registration, P. O. Drawer 1404, Columbia, South Carolina.

COMMITTEE ON NATIONAL BUREAU OF ENGINEERING REGISTRATION

L. M. MARTIN, *Chairman*, Iowa, Representing Committee on Qualifications for Registration, (1947).
C. C. KNIPMEYER, Indiana, Representing Committee on E.C.P.D., (1946).
ROY M. GREEN, Nebraska, Representing Central Zone, (1945).
JOSEPH WEIL, Florida, Representing Southern Zone, (1945).
A. G. CHRISTIE, Maryland, Representing Northeast Zone, (1947).
DANIEL B. JETT, New Mexico, Representing Western Zone, (1946).
T. KEITH LEGARÉ, South Carolina, Executive Secretary, N.C.S.B.E.E. (Ex. Officio).

ADVISORY BOARD

American Society of Civil Engineers, George T. Seabury.
American Society of Mechanical Engineers,
American Institute of Electrical Engineers, C. R. Beardsley.
American Institute of Chemical Engineers, J. M. Weiss.
Society for the Promotion of Engineering Education, Paul Cloke.
American Association of Engineers, C. J. Ullrich.
American Railway Engineering Association, R. E. Warden.
National Society of Professional Engineers, Arthur V. Sheridan.

Engineer Registration

A South Carolina Registered Engineer sent the following comments with his registration fee: "In my opinion there should be more registration by the engineers of this State. One of the basic faults of the engineering profession is that they do not seem to have acquired a sense of class-consciousness. Wherever two fishermen, two hunters, or two doctors gather, they seem to find much in common. This is not true of engineers and I think one way to promote this is by registration."

Similar thoughts are expressed in the comments by Raymond J. Briggs, Secretary of the Idaho State Board of Engineering Examiners:

"Some people lose sight of the fact that any group of society is forceful only as the resultant force of its composite membership and that the direction of effort is likewise a resultant of the composite direction of effort.

"Engineer registration is one of the many tools necessary with which to forge, from elemental human substance, the pedestal upon which professional engineering shall be constructed to full stature and maintained as an active and useful power in furthering the welfare of society. In accomplishing the purpose, engineer registration is as important in shaping professional engineering as the hammer to the blacksmith—that the hammer be a good one, wielded by experienced hands is exceedingly important; however, both the hammer and the hands may be, and likely should be of less durable import than the thing fashioned and the use to which it is put.

"Involving the human element as it integrally does, engineer registration aims and methods should not be conceived as inanimate or fixed, but rather as amenable to change in all dimensions as may be required in changing plans to accomplish new objectives or to maintain gains secured.

"As a believer in state control I support my contentions for state registration, as opposed to national control, upon several premises, among them a belief that recognition of need, and opportunity for progressive development is more promptly recognized and accomplished when more people are directly charged with responsibility."

Dr. Charles F. Scott, Chairman of the Connecticut State Board of Registration for Professional Engineers and Land Surveyors, says: "Our State Boards are building the Engineering Profession of Tomorrow by granting registration to those who are to be the Engineers of Tomorrow and who will constitute the Profession."

Faith of the Engineer

I am an Engineer. In my profession I take deep pride, but without vainglory, to it I owe solemn obligations that I am eager to fulfill.

As an Engineer, I will participate in none but honest enterprise. To him that has engaged my services, as employer or client, I will give the utmost of performance and fidelity.

When needed, my skill and knowledge shall be given without reservation for the public good. From special capacity springs the obligation to use it well in the service of humanity; and I accept the challenge that this implies.

Jealous of the high repute of my calling, I will strive to protect the interests and the good name of any engineer that I know to be deserving; but I will not shrink, should duty dictate, from disclosing the truth regarding anyone that, by unscrupulous act, has shown himself unworthy of the profession.

Since the Age of Stone, human progress has been conditioned by the genius of my professional forebears. By them have been rendered usable to mankind Nature's vast resources of material and energy. By them have been vitalized and turned to practical account the principles of science and the revelations of technology. Except for this heritage of accumulated experience, my efforts would be feeble. I dedicate myself to the dissemination of engineering knowledge, and especially, to the instruction of younger members of my profession in all its arts and traditions.

To my fellows I pledge, in the same full measure I ask of them, integrity and fair dealing, tolerance and respect, and devotion to the standards and the dignity of our profession; with the consciousness, always, that our special expertness carries with it the obligation to serve humanity with complete sincerity.

The FAITH OF THE ENGINEER, published above, was presented to the Eleventh Annual Meeting of Engineers' Council for Professional Development by the Committee on Principles of Engineering Ethics and received unanimous approval.

Roster of Registered Engineers and Land Surveyors

Authorized to Practice in the State of South Carolina, as of August 1, 1944

NOTE—IMPORTANT THAT SECRETARY BE NOTIFIED OF CHANGE IN POSITION OR ADDRESS.
Key to abbreviations in classification: C.E., Civil Engineer; E.E., Electrical Engineer; E.M., Mining Engineer; M.E., Mechanical Engineer; L.S., Land Surveyor; N.A., Naval Architect.

Name and Position	Address	Classification	Date	Certificate No.
ADAMS, DAVID G., City Manager.	Florence, S. C.	C.E., L.S.	3-22-23	70
ADAMS, J. K., Chief Struct. Designer, J. E. Sirrine & Co., Engrs.	Box 1024, Greenville, S. C.	C.E.	3-22-23	72
ALLEN, E. L., Assoc. Engr., U. S. Navy, Sanford, Fla.	411 E. American Ave., Orlando, Fla.	C.E., L.S.	7-12-32	375
ANDERSON, JOHN, Prof. of Civil Engineering, The Citadel.	Charleston, S. C.	C.E.	9-14-22	7
ANDERSON, NOEL S., Distr. Engr., Public Roads Administration.	Montgomery Bldg., Spartanburg, S. C.	C.E., E.M.	3-22-23	246
ANDERSON, PAUL H., The Harwood Beebe Co.	Woodruff, S. C.	C.E., L.S.	7-12-32	376
ANDREWS, CHARLES C., Farmer.	Anderson, S. C.	L.S.	12-7-43	610
ARMSTRONG, GEORGE S., Pres., George S. Armstrong & Co.	52 Wall Street, New York, 5, N. Y.	C.E.	5-1-39	482
ASBURY, A. D., Partner, J. E. Sirrine & Co.	215 S. Main Street, Greenville, S. C.	M.E.	12-1-42	593

AULL, L. B., Jr., Resident Engineer, State Highway Dept.	C.E., L.S.	12-3-35	415
BABB, ROBERT E. Jr., Constr. Engr., S. C. Power Co.	C.E., L.S.	7-11-33	384
BAILEY, O. A., Chief Engr., Chicago Bridge & Iron Co.	C.E.	11-19-23	277
BALDWIN, C. M., Civil Engr., Atlantic Coast Lumber Corp.	C.E., L.S.	9-14-22	9
BARBER, BRUCE P., Capt., U. S. Army	C.E., L.S.	7-13-37	445
BARKSDALE, GEORGE R., V.-Pres. & Cons. Engr., Greenwood Tel. Co.	E.E.	7-13-37	438
BARNWELL, ROBERT E., Vice-Pres. & Sou. Representative, Lockwood Greene Engrs., Inc.	M.E.	7-13-37	442
BARRE, B. H., Chief Engr., Railroad Comm. of South Carolina.	E.E.	12-6-32	380
BAUER, JACOB W., Division of State Parks, S. C. State Comm. of Forestry.	L.S.	6-17-41	546
BECKHAM, W. K., Maintenance Engr., State Highway Dept.	C.E., L.S.	9-14-22	10
BEEBE, HARWOOD, Municipal and Civil Engineer, Vice-Chairman, State Board of Engineering Examiners.	C.E., L.S.	3-22-23	88
BELLINGER, HARRY O'B., Asst. City Engineer.	C.E., L.S.	3-22-23	86

BENSON, JAMES I., Lt., C. E. C., U. S. N. R., Shop Supt., Public Works Division.	Navy Yard, New York, N. Y.	C.E.	12-3-40	542
BISHOP, ROY P., Lt. Col., T. C. Deputy, Intel. and Sec. Division, U. S. Army.	Brooklyn, N. Y.	C.E., L.S.	12-5-22	40
BLACKMON, H. J., Chief of Surveys and Plans, State Highway Department.	Columbia, S. C.	C.E., L.S.	7-13-37	446
BLACKWELDER, C. DAVIS, Vice-Pres., in charge of Eng., Reynolds Metals Company.	Reynolds Metals Bldg., Richmond, 19, Va.	C.E., M.E.	6-22-26	306
BOONE, L. C., County Engineer, Orangeburg County.	Orangeburg, S. C.	C.E.	9-14-22	11
BOYKIN, A. B., Land Surveyor.	P. O. Box 53, Camden, S. C.	L.S.	3-22-23	76
BOYKIN, T. A., With Post Engineers, Ft. Jackson.	3107 Wilmot Ave., Columbia, S. C.	C.E., L.S.	3-22-23	77
BOZEMAN, F. B., Electrical Dept., J. E. Sirrinc & Co., Engrs.	38 Aberdeen Ave., Greenville, S. C.	E.E.	12-3-35	407
BREWER, RAYMOND G., Supervisor of Surveys, U. S. Engineers.	401-A Mixon Avenue, North Charleston, S. C.	L.S.	6-20-44	618
BRICE, CHARLES M., Jeff Hunt Road Machinery Co.	1915 Green St., Columbia, 21, S. C.	C.E., L.S.	3-22-23	85
BRIGGS, W. A., Engr. and Contractor.	P. O. Box 833, Greenville, S. C.	C.E., L.S.	3-22-23	83
BRIGHT, JAMES A., Operating Engr., Santee-Cooper Authority.	1246 Main St., Columbia, S. C.	E.E.	12-5-39	508

BRINSON, J. OTTO, Surveyor.	Rt. 1, Box 73, Bonneau, S. C.	L.S.	6-18-40	513
BROWN, ALEX T., Lt. Comdr., C. E. C., U. S. N. R.	c/o Fleet P. O. San Francisco, Cal.	C.E.,L.S.	3-22-23	79
BROWN, JULIAN D., Surveyor and Farmer.	R. F. D., Johnsonville, S. C.	L.S.	6-18-40	516
BUENSOD, ALFRED C., President, Buensod-Stacey, Inc.	60 East 42nd Street, New York, New York.	M.E.	8-14-44	628
BULL, J. L., Jr., Principal, Winyah High School.	202 Cannon St., Georgetown, S. C.	C.E.,L.S.	7-8-30	357
BURDEN, HENRY S., Architect.	P. O. Box 616, Summerville, S. C.	C.E.	3-22-23	78
BURSLEY, HAROLD B., Civil and Landscape Engineer.	2038 Beverly Drive, Charlotte, 4, N. C.	C.E.	7-8-30	349
BUSH, L. RALPH, Electrical Engineer.	311 Palmer Bldg., Atlanta, Ga.	E.E.	2-14-40	510
BUSSEY, H. E., Dist. Engr., General Electric Co.	187 Spring St., N. W., Atlanta, Ga.	M.E.,E.E.	4-21-25	293
BYERS, E. D.,	2825 Heyward St., Columbia, S. C.	C.E.,L.S.	3-22-23	80
CAMPBELL, A. P., Vice-Pres., E. M. Gilbert Eng. Corp.	412 Washington St., Reading, Pa.	C.E.	7-9-35	411
CANNON, O. B., Supt. of Newberry Schools and Surveyor.	P. O. Box 415, Newberry, S. C.	L.S.	12-5-22	63
CAUGHMAN, M. WISE, Manager, Mid-Carolina Electric Cooperative, Inc.	P. O. Box "C", Lexington, S. C.	E.E.	6-18-40	530

CHAPMAN, ROBERT H., Vice-Pres., Inman Mills & Riverdale Mills.	722 Montgomery Bldg., Spartanburg, S. C.	M.E.	3-22-23	99
CHAPMAN, FRANCIS W., Supt., Commissioners of Public Works.	704 North St., Greenwood, S. C.	E.E.	6-16-42	580
CHISOLM, EDWARD N., Lt. Col. (Retired), U. S. Engineer Corps.	Route 1, Eastover, S. C.	C.E., L.S.	12-2-41	560
CHRISTENSEN, ARTHUR O., Surveyor.	Beaufort, S. C.	E.M., L.S.	7-8-30	354
CLARK, WILLIAM A., Long Construction Co.	Charleston, S. C.	L.S.	6-15-43	596
COLEMAN, J. HEARST, J. Hearst Coleman Co., Engrs.	248 Jennings Avenue, Greenwood, S. C.	C.E., L.S.	7-11-33	385
COLLINS, ROBERT S., Major, Hq. 78th Bn., 16th Group	Camp Claibourne, La.	C.E., L.S.	6-20-39	487
COURTNEY, JEROME H., Registered Surveyor.	Aiken Road, Trenton, S. C.	L.S.	7-9-35	404
COVINGTON, JAMES F., Resident Engr., U. S. Engineers, War Dept., Camp McKall, N. C.	117 N. Everett Street, Bennettsville, S. C.	C.E., L.S.	3-22-23	91
COWARD, FRED L., D. W. Alderman & Sons Co.	Box 125, Alcolu, S. C.	L.S.	7-13-37	439
CUMBUS, GEORGE W., Struc. Engr., J. E. Serrine & Co.	Greenville, S. C.	C.E.	6-15-43	607
DALE, F. A.,	Cashier's, N. C.	C.E., E.E., L.S.	12-6-38	476
DALTON, R. E., Dalton & Neves.	Greenville, S. C.	C.E.	12-5-22	64

DAVIS, LEROY M., Chief Engr., S. C. Public Service Authority.	1246 Main Street, Columbia, S. C.	M.E., C.E., L.S.	6-20-44	619
DAWSON, LOUIS Y., Sr., Const. Engr., S. C. Power Co. Pres., Dawson Engineering Co.	13 Church St., Charleston, S. C.	C.E., L.S.	12-5-22	42
DAWSON, LOUIS Y., Jr., Partner, Dawson Engineering Co.	33 Church St., Charleston, S. C.	C.E., L.S.	3-22-23	101
DEAN, FRANCIS FURMAN, Tenn. Eastman Corp.	1522 Linville St., Kingsport, Tenn.	E.E., M.E.	7-10-34	396
DILL, ROBERT C., Engr., Reynolds Metals Co.	Reynolds Metals Bldg., Richmond, 19, Va.	M.E., E.E.	6-20-44	620
DOAR, WILLIAM R., Distribution Engr., Carolina Power & Light Co.	Raleigh, N. C.	E.E.	6-16-42	585
DOTTERER, E. GAILLARD, Pres., Dotterer Engineering Co.	21 Broad St., Charleston, S. C.	C.E.	12-5-33	387
DOTTERER, JOHN B., Civil Engineer.	311 Peoples' Office Bldg., Charleston, 3, S. C.	C.E., L.S.	6-20-44	621
DROBILE, ALBERT W., Professional Engineer.	311 West Avenue, Wayne, Pa.	M. E.	12-1-42	592
DUBOSE, D. S., Civil Engineer and Land Surveyor.	127 North Street, Darlington, S. C.	C.E., L.S.	5-20-33	352
DUGGAR, L. G., Lieut. Col., A. C., Engineer Section, Headquarters Third Air Force.	305 S. Gomez Ave., Tampa, 6, Fla.	C.E., L.S.	6-21-38	462
DUNCAN, DANIEL T., American Construction Co.	3515 Devereaux Rd., Columbia, S. C.	C.E., L.S.	12-5-33	393
EADDY, ERNEST J., Manager, The Textile Shop.	Drawer 1330, Spartanburg, S. C.	C.E.	6-20-39	486

EARLE, HARRY U.,	Walhalla, S. C.	L.S.	12-5-22	43
EARLE, SAMUEL B., Dean, School of Engineering, Clemson College.	Riggs Hall, Clemson, S. C.	M.E.	12-7-43	611
EDWARDS, ERNEST E., Jr., Municipal Engr., Tomlinson Engineering Co.	1307 Marion St., Columbia, S. C.	C.E., L.S.	6-16-42	586
ELLISON, CLARENCE H., Jr., Southern Cement Co.	Box 579, Atlanta, Ga.	C.E.	7-11-33	386
EMERSON, C. L., Vice-Pres. and Chief Engr., Robert & Co.	706 Bona-Allen Bldg., Atlanta, Ga.	C.E., E.E., M.E.	7-9-29	335
EMERSON, L. A., State Salvage Manager, W.P.B.	Waters Bldg., Columbia, S. C.	C.E., L.S.	9-14-22	15
ERVIN, A. L., Civil Engineer and Land Surveyor.	P. O. Box 3, Florence, S. C.	C.E., L.S.	3-22-23	105
FILBY, E. L., Black & Veatch.	4706 Broadway, Kansas City, 2, Missouri.	C.E.	3-22-23	114
FINLEY, LESLIE L., Chief of Party, U. S. Corps of Engineers, Fort Jackson.	1302 Kinderway, Columbia, 47, S. C.	L.S.	12-1-42	591
FISHBURNE, CLARENCE L., Jr., Engr., Federal Power Commission.	Ten Forsyth St. Bldg., Atlanta, 3, Ga.	E.E.	7-14-36	427
FITCH, FRANCIS BURT, Jr., Capt., Corps of Engineers, Asst. Post Engr.	Ft. Belvoir, Virginia.	C.E., L.S.	7-9-35	402
FLOYD, M. H.,	113 E. Taylor St., Savannah, Ga.	L.S.	12-7-43	609
FOSTER, J. W.	P. O. Box 444, Summerville, S. C.	C.E.	3-22-23	111
FRICK, DANIEL F., Sr. Sanitary Engr., S. C. State Board of Health.	418 Wade Hampton Bldg., Columbia, 10, S. C.	C.E.	6-15-43	600

FRY, E. D., Supt., Greater Greenville Sewer District.	Box 1416, Greenville, S. C.	C.E., L.S.	3-22-23	112
FUCIK, E. MONTFORD, Lt. (jg), C. E. C., U. S. N. R. Asst. to Distr. Public Works Officer.	Box P, Navy 121, c/o Fleet P. O., New York, N. Y.	C.E., L.S.	6-20-39	492
FUSSELL, J. A., Jr., Lt., U. S. N. R.	c/o Mrs. J. A. Fussell, Jr., Alamo, Ga.	E.E.	12-2-41	564
GAILLARD, J. P., Gaillard & Gaillard.	23 Broad Street, Charleston, S. C.	C.E.	3-22-23	117
GAILLARD, WM. LUCAS, Gaillard & Gaillard.	23 Broad Street, Charleston, S. C.	L.S.	12-7-37	453
GAMBILL, RUSSELL F., Chief Engineer, Espy Paving & Construction Co.	Mt. Holly, S. C.	C.E.	6-20-39	494
GARETY, J. H., Engr., Port Utilities Comm.	231 Rutledge Ave., Charleston, S. C.	C.E.	12-3-29	345
GAUGER, RAYMOND J., Consulting Engineer.	901 Carolina Avenue, N. Augusta, S. C.	C.E.	6-12-40	512
GETTYS, J. T., Jr., Civil Engineer.	Lugoff, S. C.	C.E., L.S.	6-21-38	379
GIBSON, J. E., Mgr. and Engr., Water Dept., Com. Public Wks.	113 Ashley Ave., Charleston, S. C.	C.E.	3-22-23	244
GILLESPIE, WYLIE W., Smith & Gillespie, Engineers.	P. O. Box 1048, Jacksonville, Fla.	C.E., L.S.	9-3-42	589
GLENN, H. E., Assoc. Prof., Civil Engr., Clemson Agricultural College.	Box 32, Clemson College, S. C.	C.E., L.S.	6-21-38	461

GOOCH, JOSEPH HESTER, Partner, Gooch & Taylor, Surveyors.	102½ Kennedy Place, Spartanburg, S. C.	L.S.	7-10-34	397
GOODING, W. J., Jr., Bridge Engineer, State Highway Dept.	State Office Bldg., Columbia, S. C.	C.E.	7-13-37	447
GOULDIN, P. G., Civil Engineer and Surveyor.	Kingstree, S. C.	C.E.,L.S.	9-14-22	18
GRADICK, L. E., Chief Engineer, Badges Ordnance Works, Mason & Hanger Co.	Baraboro, Wis.	C.E.,L.S.	7-12-32	377
GREACEN, WALTER, 3rd, Mechanical Engineer, Gilbert Associates, Inc.	412 Washington Street, Reading, Pa.	M.E.	9-27-40	534
GREEN, L. LOUIS, Jr., Vice-Pres., Char. Shipbuilding & Dry Dock Co.	P. O. Box 845, Charleston, S. C.	N.A.	7-14-31	368
GUNBY, FRANK McC., Consulting Engr., Chas. T. Main, Inc.	201 Devonshire St., Boston, Mass.	E.E.,M.E.	7-9-35	408
HALFACRE, WALTON B., Land Surveyor.	1103 Friend Street, Newberry, S. C.	L.S.	6-15-43	597
HAMILTON, LEGARE, Asst. and Asst. Mgr., Waccamaw Power Co.	132 St. James St., Georgetown, S. C.	C.E.,L.S.	6-21-38	428
HARDESTY, SHORTTRIDGE, Waddell & Hardesty.	101 Park Ave., New York, N. Y.	C.E.	12-4-28	330
HARDIN, L. H., Prin. Electrical Engr., Santee-Cooper.	322 S. Hardin St., Columbia, S. C.	E.E.,M.E.	12-3-35	414
HARLESTON, FRANCIS M., Surveyor, Charleston Navy Yard.	Route 1, Box 69, Charleston, S. C.	L.S.	6-21-38	468
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HARRIS, W. E.,	Box 607, Lancaster, S. C.	C.E., L.S.	3-22-23	123
HARZA, L. F., Pres., Harza Engineering Co.	205 W. Wacker Dr., Chicago, 6, Ill.	C.E., E.E., L.S.	12-6-38	475
HAWES, EDWARD, City Engineer.	City Hall, Orangeburg, S. C.	C.E., L.S.	3-22-23	136
HAYNES, H. GALE., Assoc. Prof. of Eng., The Citadel.	Charleston, S. C.	C.E., L.S.	7-13-37	443
HEINRICH, CHESTER J., J. A. Jones Construction Co., Wainwright Yard.	Panama City, Fla.	M.E.	6-15-43	606
HEISS, JONAS S., Lt. Col., A. C., U. S. Army, Staff C in C. P. O. A.	c/o Fleet Post Office, San Francisco, Cal.	C.E., L.S.	12-5-39	502
HENDERSON, THOMAS W., Engr. and Supt., Aiken Electric Cooperative, Inc.	Box 417, Aiken, S. C.	E.E.	12-3-40	543
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HERNDON, CHARLES H. Jr., State Highway Department.	Columbia, 10, S. C.	L.S.	12-3-40	539
HICKLIN, W. J., Capitol Concrete Co.	Box 4787, Jacksonville, 1, Fla.	C.E.	3-22-23	121
HILL, BURROW, Supt. for E. D. Sloan, Greenville, S. C.	4 Whitman St., Orangeburg, S. C.	C.E.	3-22-23	134
HILL, FRANK, Asst. Engr. and Designer, Geo. Hill.	P. O. Box B, Wellford, S. C.	M.E., E.E.	6-21-38	459

HILL, GEORGE, Mechanical and Electrical Engineer.	P. O. Box B, Wellford, S. C.	M.E.,E.E.	6-19-23	266
HIPP, JOHN C., Engr., Lockwood-Greene Engrs., Inc.	Montgomery Bldg., Spartanburg, S. C.	C.E.,L.S.	11-15-29	341
HOGAN, JOHN P., Parsons, Brinckerhoff, Hogan & Macdonald.	142 Maiden Lane, New York, N. Y.	C.E.,E.E.,M.E.	12-3-35	418
HOLMAN, A. E., A. E. Holman & Son, Engrs.	Murray Ave. & Townsend St., Anderson, S. C.	E.E.,M.E.	3-22-23	120
HOLLYFIELD, JOHN B., Civil Engr., Arthur B. McKee & Co.	174 E. 191st Street, Euclid, Ohio.	C.E.	12-2-41	570
HOLT, D. T., Timber Cruising—Land Surveying.	Wateree, S. C.	L.S.	3-22-23	126
HOSHALL, ROBERT H., Allen & Hoshall, Cons. Engrs.	65 McCall Place, Memphis, 3, Tenn.	M.E.	7-8-41	553
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HUTTO, WALTER C., Bridge Designer, Bridge Division, State Highway Dept.	Lexington, S. C.	C.E.,L.S.	7-14-36	426
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JERVEY, E. D., Engr., Sanitary and Drainage Commission.	The Center, Room 436, Charleston, 29, S. C.	C.E.	3-22-23	144

JOHNSON, J. M., Director, Office of Defense Transportation. Member, Interstate Commerce Commission. Johnson & Roberts, Civil Engrs. (Marion, S. C.)	Washington, D. C.	C.E., L.S.	3-22-23	146
JOHNSON, R. C., Major, U. S. Military Academy.	West Point, N. Y.	C.E.	12-5-33	394
JORDON, T. M.	Box 202, Myrtle Beach, S. C.	C.E.	7-9-29	334
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KEIS, F. J., Solomon & Keis, Cons. Engrs.	257 Broadway, Troy, N. Y.	C.E.	12-2-30	360
KERSHAW, JOHN KNOX, Knox Kershaw Engineering Co.	2212 20th Ave., S., Birmingham, Ala.	C.E.	9-5-42	590
KESTER, HENRY H., Cons. Engr. (USAA), Farm Security Adm.,	113 Anne Park, Sumter, S. C.	C.E.	3-22-23	152
KLEIN, EDWARD W., Southeastern District Manager, Warren Webster & Co.	152 Nassau Street, N. W., Atlanta, 3, Ga.	M.E.	12-1-36	433
KING, JAMES N., Jr., Hdq. Co. 113th NCB	c/o Fleet Post Office, San Francisco, Cal.	C.E.	6-16-42	587
KNOTH, ROBERT F., Robert F. Knoth & Co.	39 Broad St., Charleston, S. C.	L.S.	6-18-40	514
LaBRUCE, GEORGE H.,	175 Queen Street, Charleston, S. C.	C.F., L.S.	5-2-44	156
LaBRUCE, J. BRYCE, Supt. of Const., Simons-Mayrant Co.	131 Ashley Ave., Charleston, S. C.	C.F., M.E., L.S.	3-22-23	157
LAWRENCE, FRANK E., Industrial Engineer.	381 Main St., Groveland, Mass.	C.F., L.S.	12-6-38	470

LEE, A. C., Pres., W. S. Lee Eng. Corp.	Power Building, Charlotte, N. C.	C.E., E.E.	6-21-38	463
LEGARE, T. KEITH, District Manager, W.P.B., Sec'y, State Bd. Engineering Examiners. Sec'y, Natl. Council State Bds. Eng. Exam's.	505 Carolina Life Bldg., Columbia, S. C.	C.E., L.S.	9-14-22	3
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LETELLIER, L. S., Head, Dept. of Engineering, The Citadel. Member, State Bd. of Engineering Exam's.	The Citadel, Charleston, S. C.	C.E.	9-14-22	2
LEWIS, W. S., Asst. Project Mgr., F.P.H.A.	533 Pennsylvania Ave., Norfolk, 8, Va.	C.E.	3-22-23	160
LINDER, THOS. T., Registered Land Surveyor.	Route 1, Spartanburg, S. C.	L.S.	3-22-23	154
LINDSAY, WM. S., Jr., Engr., J. E. Sirrine & Co., Engrs.	Greenville, S. C.	C.E., L.S.	3-22-23	158
LINDSTROM, ALVIN L., Consulting Mechanical Engineer.	706 Mortgage Guar. Bldg., Atlanta, Ga.	M.E.	11-9-39	495
LUCAS, FRANK H., Jr., Asst. Soil Conservationist, Soil Conservation Service.	P. O. Box 110, Hartsville, S. C.	L.S.	6-20-39	484
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MARTIN, BEN H., General Contractor.	P. O. Box 166, Easley, S. C.	C.E.	7-14-36	425
MARTIN, HAROLD R., Asst. Prof. of Mechanical Engineering, Clemson College.	Clemson, S. C.	M.E.	12-7-43	617
MARTIN, JAMES M., Constr. Engr., State Highway Department.	State Office Bldg., Columbia, S. C.	C.E., L.S.	12-1-36	436
MAYRANT, W. R., Gen. Mgr., Simons-Mayrant Co.	16 Broad St., Charleston, S. C.	C.E.	3-22-23	168
McCONNELL, EDMOND S., Engr., U. S. Rubber Co.	P. O. Box 5, Scarborough-on-Hudson, N. Y.	E.E.	10-14-40	535
McCOY, FRANK G., Asst. Radio Engr., Charleston Navy Yard.	23A Savage Street, Charleston, 4, S. C.	E.E.	12-5-39	505
McCRAZY, JOHN, The John McCrazy Co.	9 State St., Charleston, S. C.	C.E.	3-22-23	173
McDONALD, FREDERICK H., Consulting Engineer.	1 Broad St., Charleston, S. C.	C.E., M.E., E.E.	12-2-41	569
McDONNELL, R. E., Burns & McDowell.	107 W. Linwood Blvd., Kansas City, Mo.	C.E.	12-2-30	361
McDOWELL, HARRY L., U. S. Naval Air Station, Seattle 5, Wash.	102 N. Drive Avenue, Durham, N. C.	M.E.	6-18-40	523
McFARLAND, C. B., Lt. Commander, U. S. N. R. (C. E. C.)	Quarters E, U. S. Naval Hos., Chelsea, Mass.	C.E., L.S.	12-4-34	398
McLELLAN, R. F., Civil Engr. and Land Surveyor. County Engineer.	Sumter, S. C.	C.E., L.S.	9-14-22	28

McLURE, J. H., City Engr. and Treasurer.	City Hall, Chester, S. C.	C.E., I.S., E.M.	3-22-23	252
McMILLAN, C. R., State Highway Engr., State Highway Dept.	Columbia, S. C.	C.E.	6-19-23	271
McPHERSON, JNO. A., John A. McPherson and Associates.	Poinsett Hotel, Greenville, S. C.	C.E.	3-22-23	172
MILLARD, CHARLES H., J. E. Sirrine & Co., Engrs.	Rt. No. 1, Taylors, S. C.	C.E., I.S.	6-19-23	274
MILLER, L. R., Lt., U. S. N. R., Production Division, S. R. U.	Navy Yard, Charleston, S. C.	E.E.	6-20-39	489
MILLS, DONALD, 1st Lt., A. A. F.	P. O. Box 534, Selma, Ala.	C.E.	12-2-41	559
MITCHELL, NATHANIEL M., Barnes Textile Assoc., Inc.	10 High St., Boston, 10, Mass.	M.E.	12-2-41	572
MITER, H. F., Vice-Pres. and Distr. Mgr., The Austin Company.	16501 Euclid Ave., Cleveland, Ohio.	C.E.	6-9-38	455
MONROE, M. M., Surveyor.	Latta, S. C.	L.S.	6-21-38	467
MOORE, H. A., Surveyor, J. T. Kollock, Inc.	4 Broad St., Charleston, S. C.	L. S.	7-8-30	359
MOORE, JOSEPH H., Director of Engineering, Santee-Cooper.	1714 College St., Columbia, S. C.	C.E.	6-17-41	555
MOORE, RICHARD H.	Box 343, Robbins, N. C.	C.E.	12-2-41	568
MORELAND, EDWARD L., Jackson & Moreland.	Park Square Bldg., Boston, 16, Mass.	E.E.	2-9-33	382

MORGAN, G. R., Steam Dept., J. E. Sirmine & Co., Engrs.	Greenville, S. C.	E.E., M.E.	12-7-26	312
MORGAN, JOHN PHILIP, Chief Engineering Aide, U. S. Engineer Dept.	Custom House, Charleston, S. C.	L.S.	6-15-43	599
MORRIS, ROBERT H.	Box 4, Myrtle Beach, S. C.	L.S.	12-6-38	473
MORRIS, S. C.	Rt. 2, Conway, S. C.	L.S.	12-5-33	389
MORRISON, H. T.	McClellanville, S. C.	L.S.	3-22-23	166
MOSS, S. DIBBLE, Surveyor, Orangeburg Insurance Agency.	32 N. Church St., Orangeburg, S. C.	L.S.	7-10-28	327
MUNDY, JOHN T., Jr., Capt., Division Engineer Office.	50 Whitehall Street, Atlanta, Ga.	E.E.	12-5-39	501
MURRAY, F. H., Field Engineer, S. C. Public Service Authority.	422 N. Main Street, Sumter, S. C.	C.E., L.S.	12-5-22	52
NASH, W. M.	Fountain Inn, S. C.	L.S.	12-4-34	399
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NORMAN, CLARENCE C., Asst. Prof. of Civil Engineering, Clemson College.	Clemson, S. C.	C.E., L.S.	6-15-43	595
O'DELL, T. W., The Harwood Beebe Co.	Montgomery Bldg., Spartanburg, S.C.	C.E., L.S.	3-22-23	177
OLSEN, WILLIAM C., William C. Olsen, Inc., Engineers.	Raleigh, N. C.	M.E., E.E.	12-7-26	310
O'NEAL, H. R., Umatella Ord. Depot, Hermiston, Oregon.	P. O. Box 214, Charleston, S. C.	L.S.	12-3-35	416

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PALMER, JOSEPH, Civil Engineer and Land Surveyor.	Sumter, S. C.	C.E., L.S.	9-14-22	30
PATTERSON, A. H., County Supervisor.	Anderson, S. C.	C.E., L.S.	3-22-23	186
PEARSON, J. F., Supt., Orangeburg Water & Light Plant.	52 S. Middleton St., Orangeburg, S. C.	E.E., M.E.	3-22-23	182
PENNEL, JOHN W., Assoc. Civil Engineer, Tenn. Valley Authority.	820 Poinsettia Road, Columbia, S. C.	C.E., L.S.	12-7-43	615
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PHIPPS, FRED V., Supervisory Asst., Planning Survey, State Highway Department.	Columbia, S. C.	C.E., L.S.	12-2-41	566
PICKELL, WALTER L., Jr., Partner, Pickell & Pickell, Engrs.	8 Provost Bldg., Greenville, S. C.	C.E.	12-3-40	540
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POSEY, JAMES, Consulting Engineer.	10 E. Pleasant St., Baltimore, 2, Md.	M.E.	9-22-41	557
POSTELL, JAS. A., Land Surveyor.	Ravenel, S. C.	L.S.	9-14-22	31
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PRUITT, RALPH S., Mgr., Mechanical Dept., G. M. Guest & Sons.	P. O. Box 196, Anderson, S. C.	M.E.	7-14-36	423
QUATTLEBAUM, McQUEEN, Quattlebaum Ice & Fuel Co.	Johnston, S. C.	C.E.,M.E.,L.S.	3-22-23	249
RADER, J. F., Elec. Engr., S. C. Electric & Gas Co.	2739 Kirby Street, Columbia, S. C.	E.E.	12-3-40	558
RAMBO, S. B., City Engineer.	211 East Ave., Greenwood, S. C.	C.E.	12-5-22	57
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RICKETSON, JAMES L., Quartermaster Electrician, U. S. Navy Yard.	55B Ben Tillman, Navy Yard, 53, S. C.	E.E.	6-20-22	623
ROBERT, L. W., Jr., Pres., Robert and Co., Inc.	706 Bona-Allen Bldg., Atlanta, 3, Ga.	C.E.	12-7-37	448
ROBERTS, C. P., Johnson & Roberts, Consulting Engineers.	Drawer 600, Marion, S. C.	C.E., L.S.	3-22-23	239
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SCHWEITZER, R. R., Pres. and Gen. Mgr., Layne-Atlantic Co.	P. O. Box 1568, Norfolk, Va.	C.E.	4-5-39	481
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SINGLETARY, J. A.,	Cross, S. C.	L.S.	3-22-23	200
SIRRINE, J. E., J. E. Sirrime & Co., Engrs.	South Main St., Greenville, S. C.	C.E., L.S.	12-5-22	60
SLIGH, H. L., N. E. District Engr., State Highway Dept.	Box 111, Florence, S. C.	C.E.	3-22-23	207
SMITH, ELROY G., Office of Ch. of Engineers. War Department,	2028 Fort Davis St., No. 200, Washington, 20, D. C.	C.E., L.S.	7-10-28	326
SMITH, NEELY J., Concrete Inspector, Harza Eng. Co.	Ridgeville, S. C.	L.S.	12-3-40	538
SMITH, RAYMOND B., International Paper Co., Southern Kraft Division, Woodland Division.	McClellanville, S. C.	L.S.	3-22-23	214
SMITH, T. J.,	238 N. Purdy St., Sumter, S. C.	L.S.	3-22-23	211
SMITH, W. AUSTIN, Smith & Gillespie.	P. O. Box 1048, Jacksonville, Fla.	C.E.	7-31-42	588
SMITH, WILBUR S., Bureau of Traffic Research, Yale University.	426 Prospect St., Apt. 1, New Haven, Conn.	C.E.	6-17-41	551
SNOWDEN, B. E. B., Chief Engr., REA Division, J. B. McCrary Eng. Corp.	22 Marietta Street Bldg., Atlanta, Ga.	E.E.	6-18-40	521
SPELLMAN, J. F., Architect and Engineer, J. E. Sirrime & Co., Engrs.	131 Monte Vista Avenue, Greenville, S. C.	C.E., M.E.	3-22-23	204
STEPHENS, JAMES H., 1st Lt., Hdq. 3rd Service Command, International Security Division.	300 Equitable Bldg., Baltimore, Md.	C.E.	12-6-38	479

STIPP, ROY A., Mgr., Buffalo Forge Co.	113 Dixie Lane, Oakridge, Tenn.	M.E.	6-18-40	531
STOKES, HERBERT L., Test Engr., Charleston Shipbuilding and Drydock Co.	Grave and Eighth St., Charlotte, 22, S. C.	E.E.	12-7-37	451
STUART, BURTON B., Electrical Engr., U. S. Navy Yard	408 Churchill Road, North Charleston, S. C.	E.E.	6-20-44	625
SUDLOW, HARRY, Engineer.	Aiken, S. C.	C.E., E.E.	7-9-29	332
SUTTON, H. N., Supt., Parks and Recreation Comm.	City Hall, Charlotte, 2, N. C.	C.E.	3-22-23	213
SUMWALT, R. L., Dean, School of Engineering, University of South Carolina.	733 Sweetbriar Road, Columbia, S. C.	C.E.	7-14-31	367
SWANNELL, HORACE C., Partner, J. E. Sirrine & Co.	Greenville, S. C.	E.E.	6-15-43	605
SWEENEY, F. R., F. R. Sweeny & Co., Consulting Engineer.	Anderson, S. C.	C.E.	3-22-23	247
THOMAS, GEORGE S., Elec. Engr., Wainright Yard, Panama City, Fla.	1902 Green St., Columbia, 21, S. C.	E.E.	6-15-43	601
THOMAS, HENRY C., Chief Electrician, U. S. N. R., Repair Office.	Navy Yard, S. C.	E.E.	6-20-39	485
THOMSON, B. M., City Engineer.	City Hall, Charleston, S. C.	C.E., L.S.	9-14-22	34
THROWER, WILLIAM H.,	Cheraw, S. C.	C.E., L.S.	6-18-40	529
TINDALL, W. P., Asst. Plant Engr., Ecusta Paper Corp., Pisgah Forest, N. C.	230 W. Main St., Brevard, N. C.	M.E.	12-3-29	344

TOMLINSON, W. S., City Engineer, Tomlinson Engineering Co.	City Hall, Columbia, 3, S. C.	C.E.,L.S.	9-14-22	4
TOOLE, MAX G., Electrical Engineer.	P. O. Box 365, Charleston, D, S. C.	E.E.	6-16-42	581
TOOLE, S. PERRIN, Chief of Survey, Farm Security Adm., Region 5.	P. O. Box 365, Montgomery, Ala.	L.S.	6-18-40	518
TOWLES, V. E., Sr. Highway Engr., Public Roads Adm.	608 Hill Crest, Columbia, S. C.	C.E.,L.S.	12-7-26	315
TREADWAY, T. FOLEY, Jr., Capt., U. S. A., Instructor, Coast Artillery School.	98 Ingalls Rd., Fort Monroe, Va.	E.E.	6-18-40	532
TUCKER, THOMAS T., Chief Engr., Armor Insulating Co.	800 Forrest St., N. W., Atlanta, Ga.	M.E.	8-30-43	608
URQUHART, JAMES B., Practicing Architect.	606 Palmetto Bldg., Columbia, S. C.	C.E.	12-7-43	614
VAN ATTA, FRED F., Captain, Corps of Engineers, U. S. Engineer Office.	412 Mixon Avenue, North Charleston, S. C.	C.E.,L.S.	12-7-43	613
VERNER, C. V., Civil Engr. and Land Surveyor.	1502 Richland St., Columbia, S. C.	C.E.,L.S.	3-22-23	221
WALDREP, JAMES E.,	9 Hampton Ave., Greenville, S. C.	M.E.	6-15-43	604
WALKER, REUBEN K., Major, Charlotte (N. C.) Depot.	1204 The Plaza, Apt. 4, Charlotte, 4, N. C.	C.E.,L.S.	12-5-39	504
WALLACE, W. G., Lt. Commander, U. S. Coast Guard.	128 Tradd St., Charleston, 2, S. C.	C.E.	6-19-23	273
WANNAMAKER, C. WOODS, Engr., S. C. Aeronautics Comm.	3818 Trenholm Rd., Columbia, S. C.	C.E.,L.S.	3-22-23	233

WANNAMAKER, H. L., Constr. Engr., Charleston Shipbuilding & Dry Dock Co.	5 Halsey St., Charleston, 16, S. C.	C.E.	3-22-23	248
WANNAMAKER, W. W., Jr., Wannamaker & Wells, Inc.	P. O. Box 542, Orangeburg, S. C.	C.E., L.S.	12-1-25	301
WARDLAW, JOSEPH G., Major, Engineer Corps, U. S. Army.	800 Wildwood Road, Atlanta, Ga.	C.E.	6-17-41	547
WATSON, GEORGE P., Pelzer Mills.	Pelzer, S. C.	E.E.	6-18-40	522
WATSON, THEODORE M., Dist. Supt., Duke Power Co.	Laurens, S. C.	E.E.	6-15-43	603
WESTON, JULIAN B.	Mt. Pleasant, S. C.	C.E., L.S.	3-22-23	222
WESTON, WILLIAM C., Senior Sanitary Engineer, State Board of Health.	Wade Hampton Bldg., Columbia, 10, S. C.	C.E.	3-22-23	225
WHITE, GEORGE W., The Harwood Beebe Co.	Montgomery Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	232
WHITE, GUY H., Supt. of Water Plant, Filtration Plant, City of Columbia.	2217 Gadsden St., Columbia, 2, S. C.	M.E.	9-14-22	37
WHITE, HIRAM H., Real Estate.	258 E. White St., Rock Hill, S. C.	C.E., L.S.	3-22-23	228
WIEDEMAN, H. F., Wiedeman & Singleton, Inc.	Box 1878, Atlanta, Ga.	C.E.	6-23-25	294
WILLIAMSON, J. S., Chief Highway Commissioner.	State Office Bldg., Columbia, S. C.	C.E., L.S.	3-22-23	229
WILLIAMSON, JOE, Jr., Vice-Pres., Russell and Axon, Inc.	415 S. Palmetto Ave., Daytona Beach, Fla.	C.E.	8-7-44	627

WILLIS, W. N., Consulting Engr., U. S. Engineers Dept.	Spartanburg, S. C.	C.E.,L.S.	3-22-23	234
WILSON, T. E., Civil Engineer and Surveyor.	City Hall Bldg., Darlington, S. C.	C.E.,L.S.	12-5-22	62
WINTER, JAMES A., Surveyor, Real Estate and Notary Public.	302 Carter Street, Anderson, S. C.	L.S.	3-22-23	227
WISWALL, HOWARD, Timber Estimator.	10 Watauga, St. Asheville, N. C.	C.E.,L.S.	3-22-23	253
WOODWARD, EMERY B., Assoc. Elec. Engr., U. S. Navy Yard.	1007 Montague Street, North Charleston, S. C.	E.E.	6-15-43	602
WOODWARD, MADISON H., County Engineer.	303 County Court House, Greenville, S. C.	C.E.	6-20-39	490
WOOTEN, M. FRANK, Jr., Consulting Engineer.	104 Latta Arcade, Charlotte, N. C.	C.E.	6-20-44	626
WORTHY, HOOD C., Civil Engineer, War Dept., Headquarters Fourth Service Command.	Atlanta, Ga.	C.E.	12-3-30	365
WRIGLEY, GEORGE, Head, Elec. Dept., J. E. Sirrine & Co., Engrs.	Greenville, S. C.	M.E.,E.E.	9-14-22	5
YOUNGBLOOD, A. B.,	Box 349, Rt. 5, Riverland Terrace, Charleston, S. C.	L.S.	12-6-38	473

Deceased: B. R. Cowherd, Jr., T. H. Hardin, Paul H. Norcross, H. C. Hightower, Arthur G. Boozer, Nisbet Wingfield, Adlai Osborne, H. G. Jones, B. G. Langford, H. S. Jaudon, B. M. English, S. R. Flowers, J. L. Ludlow, R. T. Crawford, F. M. Reeves, Richard C. Rhett, Chas. C. Wilson, J. F. Sullivan, G. T. Ford, A. E. Legaré, Charles H. Moorefield, R. M. Evans, J. T. Kollock, C. P. Ballenger, H. Stribling, J. H. Dingle, T. C. Hamby, W. H. Miller, H. B. Humbert, G. D. Ryan, William G. Jones, Chas. S. Kirby, W. D. Neves, Harry T. Poe, Loran A. Kerr, D. A. Hulick, H. R. Nettles, J. L. Parker, W. W. Miller, B. R. Linley.

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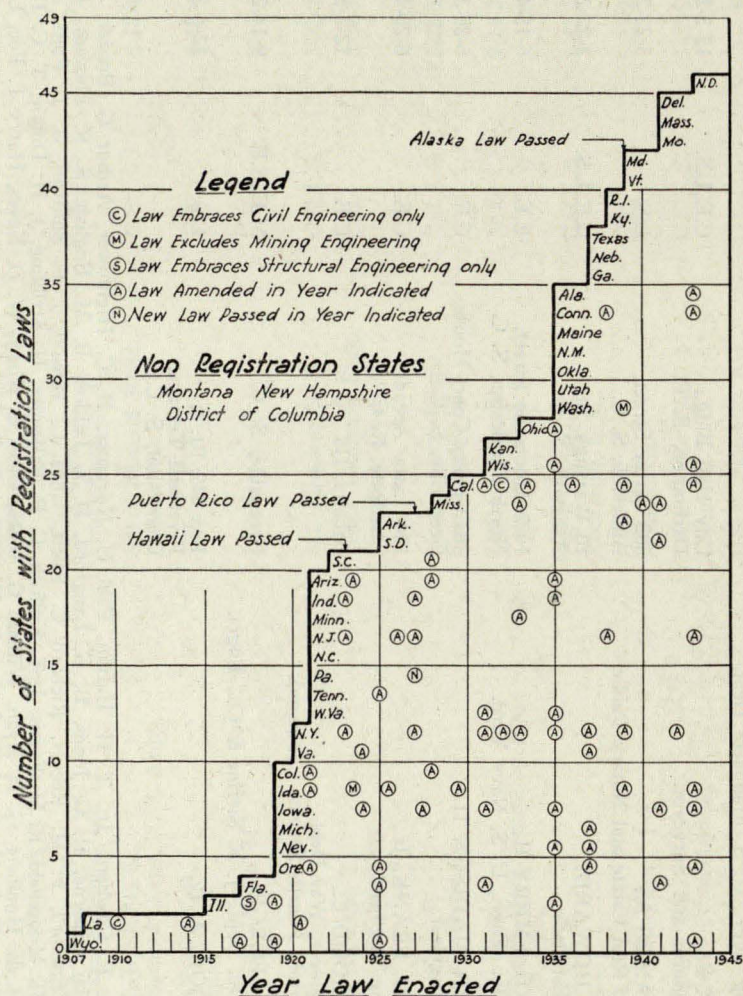


Chart of Progressive History of Engineer Registration
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October 1944